## **EUROPEAN PATENT OFFICE**

## **Patent Abstracts of Japan**

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APPLICANT: SUMITOMO METAL SMI ELECTRON

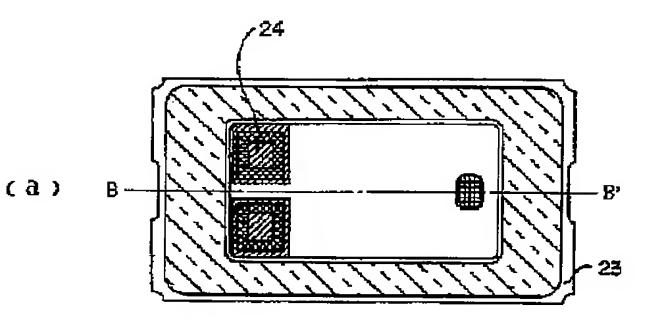
DEVICES INC;

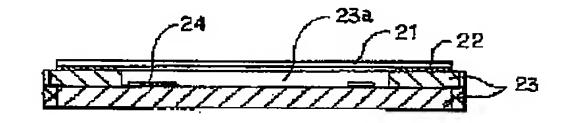
INVENTOR: SUMIDA YUKITSUGU;

INT.CL. : H03H 9/19 H03H 3/04 H03H 9/10

TITLE : CRYSTAL RESONATOR PACKAGE

PRODUCT AND ITS MANUFACTURE (b)





ABSTRACT:

PROBLEM TO BE SOLVED: To easily adjust a frequency after a crystal resonator has been sealed by jointing a transparent and flat lid formed of glass to a base substrate for sealing the crystal resonator.

SOLUTION: This crystal resonator sandwiched by electrodes is jointed into the recessed part 23a of the base substrate 23, and seal glass 22 is jointed on the upper face of the outer peripheral part of the base substrate 23. Thus, the crystal resonator is sealed between the lid 21 and the base substrate 23. The frequency of the crystal resonator is inspected, and the frequency of the crystal resonator which requires adjustment is adjusted by having it irradiated with laser beams from the outer side of the transparent glass lid and cutting the electrode. Thus, the lid 21 seals the crystal resonator and the frequency is adjusted by using the laser beam from the outside via the transparent glass lid 21. Consequently, the yield of a final product is drastically improved.

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